

ABSTRACT

An image processing system includes a photographing apparatus (1) and a processing apparatus (2). The photographing apparatus (1) includes six LEDs (6a to 6f) for emitting light with characteristics of spectroscopic distributions varied in a visible light area, a monochrome-type CCD (8) which picks-up a subject image that is illuminated by the LEDs (6a to 6f) and is formed by an image pick-up optical system (7) and which outputs an image signal, and a CPU (18) which sequentially lights-on the LEDs (6a to 6f) upon an instruction for photographing a subject spectroscopic image being input from an operating switch (14), picks-up the image by the CCD (8), and thus controls the operation for capturing 6-primary-color subject spectroscopic images. The processing apparatus (2) includes a calculating device (21) which captures the 6-primary-color subject spectroscopic images photographed by the photographing apparatus (1) to create a display signal for color reproduction at the high fidelity level, and a display (22) which displays the display signal created by the calculating device (21).